attached to said endoprosthesis.

5. (original) The device according to claim **1**, wherein said second sensing means is attached to said endoprosthesis.
6. (amended) The device according to claim **1**, wherein said first sensing means is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.
7. (amended) The device according to claim **1**, wherein said second sensing means is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.
8. (cancel)
9. (cancel)
10. (amended) A method for measuring a physiological parameter in a body, comprising the steps of:
    a. chronically implanting an endoprosthesis within said body, said endoprosthesis defining an inner surface and an outer surface,
    b. chronically implanting a first sensing means closer to said outer surface than to said inner surface,
    c. chronically implanting a second sensing means closer to said inner surface than to said outer surface.

    [transmitting data,

    providing a power source]
11. (original) The method of claim **10**, wherein said physiological parameter is a pressure.
12. (original) The method of claim **10**, wherein said physiological parameter is a flow velocity.
13. (original) The method of claim **10**, wherein said physiological parameter is a pressure waveform.
14. (amended) The method of claim **10**, wherein said first sensing means is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.

15. (amended) The method of claim **10**, wherein said second sensing means is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.
16. (cancel)
17. (cancel)
18. (cancel)
19. (cancel)
20. (cancel)
21. (new) The device according to claim **1**, wherein said physiological parameter is a pressure waveform.
22. (new) The device according to claim **1**, wherein said physiological parameter is a flow velocity.

Respectfully,

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